Review of Needed Demos for .NET Show

Notes: Item in () after name is the original demo name.

✓ *Module 01—Introduction to Microsoft .NET*

XML Web Service (was 01XMLWebService1)

Create new web service (no coding, just do it)
Power of web services
How they can be used
Simple XML web service demo – don't walk thru code just show it.

NW Traders Travel Overview (01NWTradersTravel)

Walk through NWTraders Travel application.
Explain how
Web services tie in from remote Margie's travel (running locally for demo purposes)
Application also uses corporate data

✓ *Module 02—Introduction to the .NET Framework*

Fractals and Threading (02Fractals)

Discuss how the framework provides the features in this demo
Threading
Windows forms
Graphics support (fractals)
Also mention how the CLR is running the application

CLR Basics Using ILDasm (02ILDasm)

Basics of CLR and features
Show opening assembly with ILDasm utility
Explain how:
Meta data is stored in assembly
MSIL is what is executed and is part of assembly
.NET Framework provides utilities for working with assemblies

✓ *Module 03—Introduction of Visual Studio.NET*

Creating Web Application step (03CreateApp)(Marnie: Swap places with this and the next demo)

Visual Studio's Web Application creates vdir automatically
Creates application directory structure
Can use File access (faster) of FrontPage Server Extension access to sites

Developer Productivity (03Productivity)

Demonstrate the VS Environment.
Show
Ease of use (windows, help)

Tools (such as Object Browser and Class View)
Start page integration

03XML

Demo the XML Designer
Demonstrate
Drag and drop from Solution Explorer
Editing files in XML and relational view
Saving files
Discuss how features in VS .NET Designer (grid) can be built in Windows applications.

03Debug

Show debugging applications.
Demonstrate
Single stepping, breakpoints
Show both ASP.NET and VB .NET applications

Module 04—Introduction of .NET Languages

Multi Language Interoperability (04MultiLanguage) (Ken Miller if COBOL demo not available)

COBOL, C#, VB.NET, ASP.NET demo
Debugging
ASP.NET

√ **Simple VB Application** (04SimpleVB)

Create simple VB application.
Show basic steps to create application
Walk through simple functionality
Explain similarities to VB 6 and new features such as common MessageBox

√ **Error Handling** (04ErrorHandling)

Demonstrate
Basic error handling
How to raise errors
Using Try/Catch/Finally/End Try , vs on error goto.

Simple C# Application (04SimpleC#) (Ken Miller)

Create simple C# application.
Demonstrate
How C# is similar to C++ and JScript languages
Discuss how C# has access to entire .NET Framework

✓ Module 05—Building ASP.NET Applications

Web Forms 101 (05WebForm 1)

Show simple web form with several controls. Demonstrate page life cycle.
Demonstrate:

Ease of creating Web Forms
Power of server controls
Event paradigm of pages and controls
Standard HTML generation of controls

Validation Controls (05Validation)
Add validation controls
Demonstrate:
Linking validation to controls
Validation control types
Declarative mechanism of controls
Server and client logic

User Controls (05UserControls)
Create header user control
Demonstrate:
Ease of creating controls from standard HTML
Standardization using controls
Integration of controls into page using VS .NET

Session State (ASP.NET Application Services)
Show using session state in application.
Demonstrate:
Session options in Web.Config
How state management works similar to ASP
Discuss improvements for all types of applications

NW Traders Travel and ASP.NET

Demonstrate
Server controls and event processing, properties (such as visible)
Header, footer user controls. Show property for header title
Redirection using to other pages

✓ *Module 06—Data Access*

Data Form Wizard (06DataFormWizard)
Show how to use the Data Form Wizard to build new data driven form
Demonstrate
Options when creating form
Form code generated

Review of Needed Demos for .NET Show

Command Object (06Command)

Show how to use the OLEDBCommand object

Demonstrate

How command object is part of OLEDB and SQLClient providers

How to use ExecuteScalar method

Simple structure of using command object

Data Reader (06DataReader)

Show how to use the Data Reader object and bind it to server controls

Demonstrate

How to setup a Data Reader

How to interact with server controls

How to use server controls from server side code

Data Set (06DataSet)

Show how to use the Data Set

Demonstrate

How to setup the DataSet

How to bind server controls to dataset

How to use functions that return a dataset

06DataView

Show how to use the Data View to provide a sorted view of a DataSet

Demonstrate

How sorting in the DataGrid works

How to store datasets in session variables and how it is serialized

Flexibility of using data view and datasets together

NW Traders Travel and ADO .NET

Demonstrate

DataGrid usage

Sorting in various pages using data grid

Use of ExecuteScalar where appropriate

✓ *Module 07—Creating the Middle Tier*

Simple Class (07SimpleClass)

Create class, Instantiating class, basics

Demonstrate

How to create a simple component

How to return a dataset from the component

How to consume the component in a client application

How the component can be used over and over by many applications

Data Class (07Data Class)

Show how to create a new class that has a constructor and a richer set of methods.

Demonstrate

Show constructor and optional parameters and explain how they work.

How data reader can be returned

Added reuse of components

Simple Inheritance (07Inheritance)

Demonstrate simple inheritance concepts

How to create a base class

How to derive a class from it

Working with Assemblies (07Assemblies)

Show how to add attributes to assembly.vb and build component.

Demonstrate

How to set assembly attributes

How to set build options and build release code

How to view properties with Windows Explorer.

NW Traders Travel and Components

Demonstrate

DBLayer and its reuse

Constructor in DBLayer

Pulling ConnectString from Web.Config

✓ *Module 08—Windows Applications*

Windows Form Intro (08WinFormSimple)

Building a simple Windows Forms Application

Demonstrate

How the process is similar to a V 6 application

How to use simple controls

How to show forms

Windows Forms and Controls Intro (08WinControlsPlus)

Show mainmenu control, menu editor, tab order, buttons, dialogs, other interface stuff.

Demonstrate

VS .NET Features for working with controls

New menu system

Working with forms and controls in general

Review of Needed Demos for .NET Show

Working with Bound Controls (08WinData)

Data binding using components

Demonstrate

How to data bind to a windows form control

How components can be used with data binding

Flexibility of the data grid

08WinInheritance – Marnie Delete this demo

NW Traders Travel and Windows Applications

Demonstrate

Integration of Windows app into intranet application

Reuse of components by Windows application

How web services can be used to remote applications

√

Module 09—XML Integration

XML Parsing

Show basics of parsing an XML document.

Demonstrate

How to find environment variables for folders and such

How to load a document

How to parse the document

XMLReader (09XMLReader)

Show reading XML from URL

Demonstrate

How to use the XMLReader

How to load XML from a URL

How to extract elements from the resulting document

XML and DataSets (09XMLDataSet)

Show how to load and save XML using datasets

Sample of working with DataSet and XML, Load dataset from XML, bind to datagrid

Demonstrate

Loading a dataset from XML

Databinding to the dataset

Saving changes from the grid back to the XML document

Module 10—Web Services

√ XML Web Services 101 (10SimpleXMLWebService

Show creation of a simple web service

Demonstrate

Ease of creating web services in VS .NET

How web services are really extensions of functions

How VS .NET creates the plumbing for web services.

√ **XML Web Services Clients** (10ConsumingXMLServices)

Create ASP.NET page to use XML Web Service

Demonstrate

How to register web services

How to use a web service

How calling a web service is like calling a function or method

XML Web Services and Data (10Data Service)

Create data web service and test. Show how XML is returned to browser but dataset returned to app that uses dataset

Demonstrate

How to return data from a DataSet

How DataSets automatically serialize themselves

How to consume data from a web service

Web Services and Windows Applications

Show using a web service from a windows application. The application will call a remote web service that pulls data from Microsoft's Terraserver database.

Demonstrate

Remote usage of a web service

Calling a web service from a Windows application

Returning sophisticated data from a web service.

NW Traders Travel and Web Services

Demonstrate

Use of Margie's Travel web services

How web services return data

How data from web services is used by application

Module 11 –Enterprise Services

11Event Log

Add support to application for event logging

11PerformanceMonitor

Add performance monitor counter. Discuss adding custom counter.

11Windows Service

Add windows service to watch for XML file in folder, then add file to database

11COM+Basics

Set COM+ attributes, DBLayer, Business Layer

Module 12--Security

12WinAppAuthorization

Demonstrates how to access Windows 2000 / NT security information and perform role based security.

12WebAppAuthentication

Demonstrates using Forms authentication for web applications. Uses custom security to access credentials in DB, then set forms authentication.

12WebAppAuthorization

Demonstrate URL authorization..

NW Traders Travel and Security

Module 13—Application Configuration and Deployment

13Machine.config —Show how this controls global server settings

13ConfigAndDeploy

13InstallPackage

Use Installer to create an install package. Use MSI setup

13PackageMaintenance

Change and compile new version of assembly, install assembly on server while app is working

Module 14—Application Integration

14COMInterOp

Show calling COM class from .NET

Module 15—Migrating Applications

15UsingVBNETUpgradeTool

Show features and demonstrate

15C#toVBNET

Show the tool, show how VB.NET developers can convert C# samples and applications to VB.NET.

Module 16—Building Applications for Mobile Devices

16NETCompactFramework (Waiting on Compact Framework)

Simple example of application using compact framework

16MobileInternetToolkit

Create form to review itinerary on mobile device